

03040202-050
(Lynches River)

General Description

Watershed 03040202-050 (formerly 03040202-060) is located in Lancaster, Kershaw, and Chesterfield Counties and consists primarily of the **Lynches River** and its tributaries from Flat Creek to the Little Lynches River. The watershed occupies 118,509 acres of the Piedmont and Sandhills regions of South Carolina. The predominant soil types consist of an association of the Alpin-Lakeland-Candor-Troup-Blanton series. The erodibility of the soil (K) averages 0.10; the slope of the terrain averages 8%, with a range of 0-25%. Land use/land cover in the watershed includes: 64.2% forested land, 22.1% agricultural land, 9.2% scrub/shrub land, 2.5% forested wetland, 1.0% barren land, 0.5% urban land, and 0.5% water.

This section of the Lynches River accepts drainage from its upper reaches, together with the Flat Creek Watershed, the Fork Creek Watershed, Rocky Creek (Long Branch, Little Rocky Creek, Fox Branch, Sycamore Pond), Buffalo Creek (Little Buffalo Creek, South Buffalo Creek, Raley Millpond), Big Sandy Creek (Sevenmile Branch, Oxpen Branch), and Little Sandy Creek. Further downstream, Jumping Gully (Horton Pond) enters the river followed by Swift Creek (North Prong, Rocky Prong, South Prong), Red Oak Camp Creek, Cedar Creek (McGee Branch, Park Pond, Sexton Pond), Hammond Branch (Beard Branch), and Blackwell Mill Stream. The Carolina Sandhills National Wildlife Refuge extends across Big Sandy Creek down to McGee Branch. The Sand Hills State Forest extends across the lower portion of the watershed below the wildlife refuge. There are numerous ponds (totaling 361.9 acres) in this watershed and a total of 208.6 stream miles, all classified FW.

Water Quality

<u>Station #</u>	<u>Type</u>	<u>Class</u>	<u>Description</u>
PD-001	W/BIO	FW	LYNCHEs RIVER AT SC 265
PD-066	S	FW	LYNCHEs RIVER AT S-28-42
PD-009	S	FW	LYNCHEs RIVER AT US 1
(PD-080) P	FW		LYNCHEs RIVER AT S-28-15 4.5 MILES SE BETHUNE

Lynches River - There are four monitoring sites along this section of the Lynches River. At the furthest upstream site (**PD-001**), aquatic life and recreational uses are fully supported. At the next site downstream (**PD-066**), aquatic life uses are not supported due to occurrences of copper in excess of the aquatic life acute standards, compounded by a significant increasing trend in total phosphorus concentration. Recreational uses are partially supported at this site due to fecal coliform bacteria excursions. Aquatic life uses are fully supported at the next site downstream (**PD-009**); however, a very high concentration of cadmium was measured in 1998. A significant decreasing trend in total phosphorus concentration suggests improving conditions for this parameter. Recreational uses are partially supported due to fecal coliform bacteria excursions.

Station **PD-080** is physically located in the Lynches River watershed 03040202-090, but also reflects the influence from this watershed drainage. Aquatic life uses are not supported at **PD-080** due to occurrences of zinc in excess of the aquatic life acute standards, including a very high concentration of zinc measured in 1994. A significant decreasing trend in five-day biochemical oxygen demand suggests improving conditions for this parameter. Recreational uses are fully supported.

NPDES Program

Active NPDES Facilities

RECEIVING STREAM FACILITY NAME PERMITTED FLOW @ PIPE (MGD) COMMENT	NPDES# TYPE LIMITATION
LYNCHES RIVER BBA NONWOVENS SIMPSONVILLE INC. PIPE #: 001 FLOW: 2.451 WQL FOR TRC,BOD5	SC0001341 MAJOR INDUSTRIAL WATER QUALITY

Nonpoint Source Management Program

Land Disposal Activities

Landfill Facilities

LANDFILL NAME FACILITY TYPE	PERMIT # STATUS
INDUSTRIAL LANDFILL INDUSTRIAL	IWP-169 -----

Mining Activities

MINING COMPANY MINE NAME	PERMIT # MINERAL
APAC-CAROLINA, INC. ASPHALT PLANT #10	0082-25 SAND
BREWER GOLD CO. BREWER MINE	0671-25 GOLD ORE
WALTER GRIFFIN. GRIFFIN MINE NO.3	1145-55 SAND/GRAVEL

Water Supply

WATER USER (TYPE) STREAM	REGULATED CAPACITY (MGD) PUMPING CAPACITY (MGD)
TOWN OF JEFFERSON (M)	1.70
LYNCHES RIVER	3.40

Growth Potential

There is a low potential for growth in this watershed, which contains portions of the Towns of Bethune and McBee. S.C. Hwy. 151, which runs between the Towns of Jefferson and McBee, is currently under construction expanding the road to four lanes. The Town of McBee has water service and may extend it along S.C. Hwy. 151 to the north of town. McBee also has a limited sewer system which serves some of the industry in area. The area along S.C. Hwy. 265, where it crosses at the top of the watershed, has water service extended by the Town of Jefferson, but limited development is expected due to low lying lands. The remainder of the watershed is rural with agricultural and timberland uses.